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(21)Application number : **01-322793** (71)Applicant : **BAYER AG**
(22)Date of filing : **14.12.1989** (72)Inventor : **HAAS PETER DR**
HETTEL HANS
JACOBS GUNDOLF
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(54) PRODUCTION OF POLYURETHANE FOAM

(57)Abstract:

PURPOSE: To obtain a polyurethane foam excellent in flame retardance and mechanical properties by reacting a polyisocyanate with a specific isocyanate- reactive hydrogen compd. in the presence of water and/or an org. blowing agent, a catalyst, and melamine with a specified size.

CONSTITUTION: A polyisocyanate (A) is reacted with a compd. (B) having at least two isocyanate-reactive hydrogen atoms and a mol.wt. of 400-10,000 in the presence of water and/or an org. blowing agent (C), a catalyst (D), and melamine (E) having a particle size of about 5-90 μm as the flame retardant. Examples of compd. B are a known polymer-modified polyol and a polyol having many prim-hydroxyl groups. Examples of the catalyst are a tert. amine and an organometallic compd. Melamine is used pref. in an amt. of about 15-100 pts.wt. based on 100 pts.wt. compd. B.

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